

PANASONIC INDL/ELEK {IC} 12E D ■ 6932852 0010451 9 ■

Silicon Epitaxial Base NPN Transistor

T-33-21
T-33-13

**2SA1062 (PNP)
2SC2486 (NPN)**

TOP-3 Package (See Page 36 For Dimensions)

2SA1062 (PNP)

Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Rating	Unit
Collector-Base Voltage	-V _{CB0}	120	V
Collector-Emitter Voltage	-V _{CEO}	120	V
Emitter-Base Voltage	-V _{EB0}	5	V
Collector Current	-I _C	7	A
Peak Collector Current	-I _{CM}	12	A
Collector Power Dissipation	P _C *	80	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-55~+150	°C

*T_c=25°C

High Power Audio Frequency Amplifier
Complementary Pair with 2SC2486

Feature:

- High collector power dissipation: 80W(T_c=25°C)

**hFE Classification

hFE	100~120	60~120	40~80
Class	P	Q	R

Electrical Characteristics (Ta=25°C)

Item	Symbol	Condition	min.	typ.	max.	Unit
Collector Cutoff Current	-I _{CB0}	-V _{CB} =120V, I _E =0			50	μA
Emitter Cutoff Current	-I _{EB0}	-V _{EB} =3V, I _C =0			50	μA
DC Current Gain	hFE1	-V _{CE} =5V, -I _C =0.02A	20			
	hFE2**	-V _{CE} =5V, -I _C =1.0A	40		220	V
	hFE3	-V _{CE} =5V, -I _C =5A	20			
Base-Emitter Voltage	-V _{BE}	-V _{CE} =5V, -I _C =5A			1.8	V
Collector-Emitter Saturation Voltage	-V _{CE(sat)}	-I _C =5A, I _B =0.5A			2.0	V
Gain Bandwidth Product	f _T	-V _{CE} =5V, -I _C =0.5A		20		MHz

2SC2486 (NPN)

Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Rating	Unit
Collector-Base Voltage	V _{CB0}	120	V
Collector-Emitter Voltage	V _{CEO}	120	V
Emitter-Base Voltage	V _{EB0}	5	V
Collector Current	I _C	7	A
Peak Collector Current	I _{CM}	12	A
Collector Power Dissipation	P _C *	80	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-55~+150	°C

*T_c=25°C

High Power Audio Frequency Amplifier
Complementary Pair with 2SA1062

Feature:

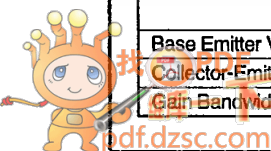
- High collector power dissipation: 80W(T_c=25°C)

**hFE Classification

hFE	100~200	60~120	40~80
Class	P	Q	R

Electrical Characteristics (Ta=25°C)

Item	Symbol	Condition	min.	typ.	max.	Unit
Collector Cutoff Current	I _{CB0}	V _{CB} =120V, I _E =0			50	μA
Emitter Cutoff Current	I _{EB0}	V _{EB} =3V, I _C =0			50	μA
DC Current Gain	hFE1	V _{CE} =5V, I _C =0.02A	20			
	hFE2**	V _{CE} =5V, I _C =1.0A	40		220	V
	hFE3	V _{CE} =5V, I _C =5A	20			
Base-Emitter Voltage	V _{BE}	V _{CE} =5V, I _C =5A			1.8	V
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =5A, I _B =0.5A			2.0	V
Gain Bandwidth Product	f _T	V _{CE} =5V, I _C =0.5A		20		MHz

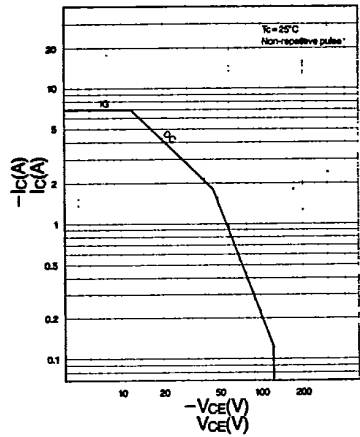


T-33-21
T-33-13

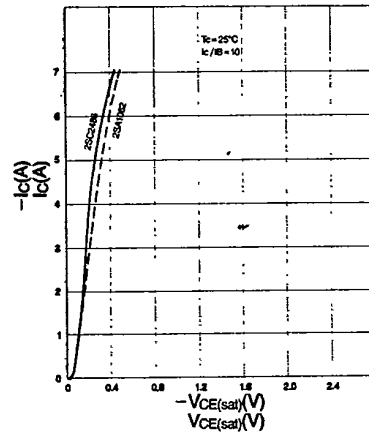
**2SA1062 (PNP)
2SC2486 (NPN)**

Typical Characteristics

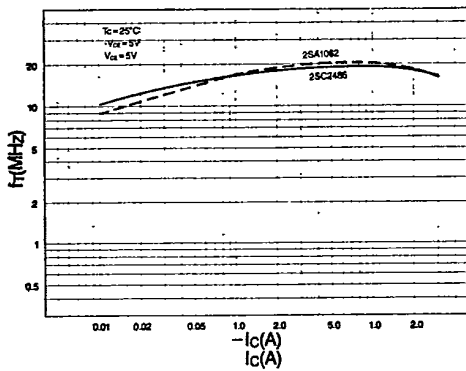
Area of Safe Operation (ASO) (Tc=25°C)



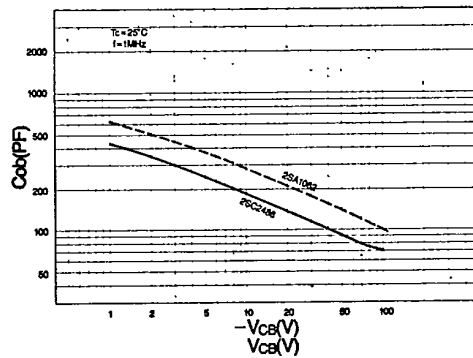
Vce(sat) vs. Ic characteristics



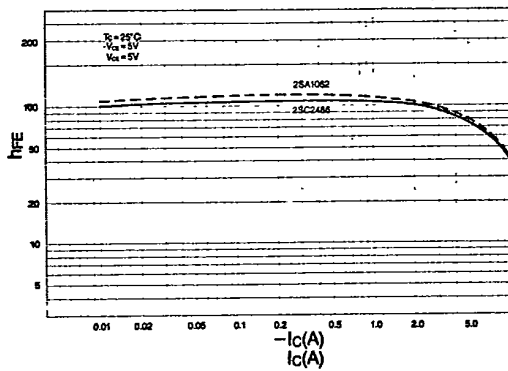
fr vs. Ic characteristics



Cob vs. Vcb characteristics



hFE vs Ic characteristics



VBE vs. Ic characteristics

